## ABSTRACT

The present invention relates to, for example, a fluorine-containing cyclic compound represented by the following general formula (1).

5 [Chemical Formula 47]

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$$O$$
  $CF_3$   $OH$   $OH$   $CF_3$   $CF_3$   $CF_3$   $CF_3$   $CF_3$   $CF_3$ 

In the general formula (1), R1a is a C<sub>1</sub>-C<sub>25</sub> cyclic alkyl group, cyclic alkenyl group or cyclic alkynyl group; each of R2 and R3 is independently a hydrogen atom, a halogen atom, or a C<sub>1</sub>-C<sub>25</sub> straight-chain, branched or cyclic alkyl group; and each of R1a, R2 and R3 may contain fluorine atom, oxygen atom, sulfur atom, nitrogen atom or an atomic group containing a carbon-carbon double bond.